Title (en)

ENCLOSURE STRUCTURE PROVIDED WITH DIRECTIONALLY-LAID POWER TRANSMISSION CONDUCTORS, AND LAYING METHOD

Title (de)

MIT DIREKTIONAL VERLEGTEN STROMÜBERTRAGUNGSLEITERN AUSGESTATTETE GEHÄUSESTRUKTUR UND VERLEGEVERFAHREN

Title (fr)

STRUCTURE D'ENCEINTE ÉQUIPÉE DE CONDUCTEURS DE TRANSMISSION D'ÉNERGIE POSÉS DE MANIÈRE DIRECTIONNELLE, ET PROCÉDÉ DE POSE

Publication

EP 3285345 B1 20220511 (EN)

Application

EP 17781838 A 20170407

Priority

- CN 201610238242 A 20160415
- CN 2017079736 W 20170407

Abstract (en)

[origin: EP3285345A1] An enclosure structure provided with directionally-laid power transmission conductors, and a laying method. The method comprises the following steps: according to an air flow parameter of the outside world of an enclosure structure (100), obtaining surface heat transfer coefficient change situations of the outer surface, in contact with a flow coming from the windward direction, of a shady side of an enclosure structure (100); determining a target laying position according to the shady side position corresponding to a highest surface heat transfer coefficient; and laying the power transmission conductors (300) at the target laying position. In the method, the conductors are laid on the shady side of the enclosure structure (100), so as to make use of a cold source on the low-temperature side; and particularly important, the specific positions where the conductors are laid on the shady side are precisely located, and the power transmission conductors (300) are disposed at the turbulent flow detachment position on the shady side and the position that is on the outer surface of the enclosure structure (100) and that is corresponding to the highest surface heat transfer coefficient, and accordingly the cold source on the shady side of the enclosure structure is more efficiently used, the heat exchange rate with the help of the shady side of the enclosure structure and the natural environment is enhanced, and the load of the power transmission conductors is increased.

IPC 8 full level

F03D 80/80 (2016.01); **H02G 3/00** (2006.01)

CPC (source: CN EP KR US)

F03D 80/60 (2016.05 - US); **F03D 80/85** (2016.05 - EP US); **H02G 1/06** (2013.01 - CN US); **H02G 3/00** (2013.01 - EP KR US); **H02G 3/03** (2013.01 - US); **H02G 3/32** (2013.01 - US); F05B 2260/20 (2013.01 - EP US); Y02B 10/30 (2013.01 - EP KR US); Y02E 10/72 (2013.01 - EP KR US)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

EP 3285345 A1 20180221; **EP 3285345 A4 20190220**; **EP 3285345 B1 20220511**; AU 2017250071 A1 20171221; AU 2017250071 B2 20181004; CN 105736259 A 20160706; CN 105736259 B 20190122; KR 102074563 B1 20200206; KR 20180008615 A 20180124; US 10465665 B2 20191105; US 2019063408 A1 20190228; WO 2017177862 A1 20171019

DOCDB simple family (application)

EP 17781838 A 20170407; AU 2017250071 A 20170407; CN 201610238242 A 20160415; CN 2017079736 W 20170407; KR 20177035918 A 20170407; US 201715579542 A 20170407